

Notice of Allowability**Application No.**

10/806,909

Applicant(s)

BESSLER ET AL.

Examiner

ADRIAN MCPHILLIP

Art Unit

3623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 5/16/2011.
2. ☒ The allowed claim(s) is/are 1,4,8,9,11-15,20-24,27-31,33 and 36-38.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 20110329, 20110414
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 20110730.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/A. M./
Examiner, Art Unit 3623

/BETH V BOSWELL/
Supervisory Patent Examiner, Art Unit 3623

DETAILED ACTION

1. The following is a response to the communications received on 5/16/2011. The response includes Examiner amendments to claims 1, 20 and 36 as well as reasons for allowance. In a communication received on 7/25/2011, Applicant's attorney approved the Examiner's proposed amendments. Therefore, claims 1, 4, 8-9, 11-15, 20-24, 27-31, 33, and 36-38 are pending in the application and are allowed.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes be unacceptable to the applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee. Authorization for these Examiner amendments was given in a communication interview with Elexis Jones on 7/25/2011. The application has been amended as follows:

In the claims:

1. (Currently Amended) A business activity monitoring system for monitoring events processed by event processing applications implemented on different legacy computer systems to enable identification of one or more problems associated with an order processing system, the business activity monitoring comprising:

an order processing system comprising:

a first legacy computer system, the first legacy computer system comprising:

at least one processor;

- a first application stored in a memory and executable by the first legacy computer system to process a first portion of an order and write first application data to a first application log file, wherein the first application data is related to the processing of the first portion of the order by the first application; and
- a first log agent stored in a memory and executable by the first legacy computer system to monitor a first resource data related to the first legacy computer system used by the first application to process at least some of the first portion of the order and write the first resource data to a first resource log file; and
- a second legacy computer system having a different architecture than the first legacy computer system, the second legacy computer system comprising: at least one processor;
- a second application stored in a second memory and executable by the second legacy computer system to process a second portion of the order and write second application data to a second application log file, wherein the second application data is related to the processing of the second portion of the order by the second application, and wherein the second application is distinct from the first application; and
- a second log agent stored in a memory and executable by the second legacy computer system to monitor a second resource data related

to the second legacy computer system used by the second application to process at least some of the second portion of the order and write the second resource data to a second resource log file;

a plurality of log adapters, each stored in a memory and executable by a processor to communicate with a corresponding one of the first application log file, the second application log file, the first resource log file, and the second resource log file to extract at least a portion of the corresponding one of the first application data, the second application data, the first resource data, and the second resource data instead of communicating with and extracting information from the first application and the second application;

a third computer system independent of the first legacy computer system and the second legacy computer system, the third computer system comprising a monitor component stored in a memory and executable by a processor to communicate with the plurality of log adapters, and determine event status information related to the order using the at least the portion of the first application data, the at least the portion of the second application data, the at least the portion of the first resource data, and the at least the portion of the second resource data without interfering with the processing of the order, wherein the event status information identifies a status of the order within the order processing system and enables analysis of business activities associated with the order processing system, and

wherein the analysis enables identification of one or more problems associated with the order processing system; and

a graphical user interface stored in a memory and executable by a processor to graphically illustrate an architecture of at least one of the first legacy computer system and the legacy second computer system used by at least one of the first application and the second application to process portions of the order, select a hardware component of the illustrated architecture, and display hardware statistics of the selected hardware component.

20. (Currently Amended) A business activity monitoring method for monitoring order processing by an order processing system including applications operating on computer systems to enable identification of one or more problems associated with the order processing system, the business activity monitoring method comprising:

processing, by a first application stored in a first memory and executed by a first legacy computer system of the order processing system, at least a portion of an order;
writing, by the first application, first application data related to the first application processing the order to a first application log file;
writing, by a first log agent stored in a memory and executed by the first legacy computer system, first hardware information related to the first legacy computer system whereon the first application processes the order to a first resource log file;
processing, by a second application stored in a memory and executed by a second legacy computer system of the order processing system, at least a portion of the order,

wherein the second legacy computer system has a different architecture than the first legacy computer system, and wherein the second application is distinct from the first application;

writing, by the second application, second application data related to the second application processing the order to a second application log file;

writing, by a second log agent stored in the second memory and executed by the second legacy computer system, second hardware information related to the second legacy computer system whereon the second application processes the order to a second resource log file;

extracting, by a plurality of corresponding log adapters stored in a memory and executed by a processor, at least a portion of the first application data, at least a portion of the second application data, at least a portion of the first hardware information, and at least a portion of the second hardware information from the first application log file, the second application log file, the first resource log file, and the second resource log file instead of extracting information from the first application and the second application;

aggregating, by a monitor component stored in a memory and executed by a third computer system that is independent of the first legacy computer system and the second legacy computer system, the at least the portion of the first application data, the at least the portion of the second application data, the at least the portion of the first hardware information, and the at least the portion of the second hardware information to monitor order processing without interfering with the

processing of the order and to enable identification of one or more problems associated with the order processing system;

graphically illustrating, by a first graphical user interface stored in a memory and executed by a processor, an architecture of at least one of the first legacy computer system and the legacy second computer system used by at least one of the first application and the second application to process portions of the order; selecting, by the first graphical user interface, a hardware component of the illustrated architecture;

displaying, by the first graphical user interface, hardware statistics of the selected hardware component; and

displaying, by a second graphical user interface stored in a memory and executed by a processor, each application processing the order and a processing time spent by each application on processing the order.

36. (Currently Amended) A business activity monitoring method for monitoring order processing by an order processing system including applications operating on computer systems to enable identification of one or more problems associated with the order processing system, the business activity monitoring method comprising:

processing, by a first application stored in a first memory and executed by a first legacy computer system of the order processing system, at least a portion of an order;

writing, by the first application, application data related to the first application processing the order to a first application log file;

writing, by a first log agent stored in a memory and executed by the first computer system, first hardware information related to the first computer system whereon the first application processes the order to a first resource log file;

processing, by a second application stored in a first memory and executed by a second legacy computer system of the order processing system, at least a portion of the order, wherein the second legacy computer system has a different architecture than the first legacy computer system, and wherein the second application is distinct from the first application;

writing, by the second application, application data related to the second application processing the order to a second application log file;

writing, by a second log agent stored in a memory and executed by the second legacy computer system, second hardware information related to the second legacy computer system whereon the second application processes the order to a second resource log file;

extracting, by a plurality of log adapters stored in a memory and executed by a processor, at least a portion of the first application data, at least a portion of the second application data, at least a portion of the first hardware information, and at least a portion of the second hardware information from the first application log file, the second application log file, the first resource log file, and the second resource log file instead of extracting information from the first application and the second application;

aggregating, by a monitor component stored in a memory and executed by a third computer system that is independent of the first legacy computer system and the second legacy computer system, the at least the portion of the first application data, the at least the portion of the second application data, the at least the portion of the first hardware information, and the at least a portion of the second hardware information to monitor order processing without interfering with the processing of the order and to enable identification of one or more problems associated with the order processing system;

graphically illustrating, by a graphical user interface stored in a memory and executed by a processor, a hardware architecture of at least one of the first legacy computer system and the second legacy computer system used by at least one of the first application and the second application to process portions of the order;

selecting, by the graphical user interface, a hardware component of the illustrated hardware architecture; and

displaying, by the graphical user interface, hardware statistics of the selected hardware component.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: None of the prior art of record taken individually or in any combination, teach or suggest: a graphical user interface that graphically illustrates a hardware architecture of at least one of the first legacy computer system and the second legacy computer system used by at least one of the first application and the second application to process portions of the order; a plurality of log adapters that

communicate with and extract information from log files instead of communicating with and extracting information from the first application and the second application and a monitor component that communicates with the plurality of log adapters and determines event status information related to the order from the extracted information without interfering with the processing of the order;

4. The prior art references most closely resembling the Applicant's claimed invention are: Helmus (US 20030225595 A1), Wacławsky et al. (US 6850530 B1), Gal-On et. al (US20030171907 A1), and Vitria Inc.'s 2001 product brief for: BusinessWare Communicator, included in the Applicant's IDS disclosure.

Helmus discloses a system for monitoring orders in a prescription ordering process but does not explicitly teach a graphical user interface that graphically illustrates a hardware architecture of at least one of the first legacy computer system and the second legacy computer system used by at least one of the first application and the second application to process portions of the order; a plurality of log adapters that communicate with and extract information from log files instead of communicating with and extracting information from the first application and the second application and a monitor component that communicates with the plurality of log adapters and determines event status information related to the order from the extracted information without interfering with the processing of the order;

Wacławsky discloses a system for aggregating resource usage information in a database but does not explicitly teach a graphical user interface that graphically illustrates a hardware architecture of at least one of the first legacy computer system and the second legacy computer system used by at least one of the first application and the second application to process portions

of the order; a plurality of log adapters that communicate with and extract information from log files instead of communicating with and extracting information from the first application and the second application and a monitor component that communicates with the plurality of log adapters and determines event status information related to the order from the extracted information without interfering with the processing of the order;

Gal-On discloses a method for optimization applications on processors that allow users to display hardware statistics but does not explicitly teach a graphical user interface that graphically illustrates a hardware architecture of at least one of the first legacy computer system and the second legacy computer system used by at least one of the first application and the second application to process portions of the order; a plurality of log adapters that communicate with and extract information from log files instead of communicating with and extracting information from the first application and the second application and a monitor component that communicates with the plurality of log adapters and determines event status information related to the order from the extracted information without interfering with the processing of the order;

Vitria's product brief discloses a system that includes messaging functionality for clients that require immediate response which allows organizations to ensure reliability with minimum overhead cost, but does not explicitly teach: a graphical user interface that graphically illustrates a hardware architecture of at least one of the first legacy computer system and the second legacy computer system used by at least one of the first application and the second application to process portions of the order; a plurality of log adapters that communicate with and extract information from log files instead of communicating with and extracting information from the first application and the second application and a monitor component that communicates with the

plurality of log adapters and determines event status information related to the order from the extracted information without interfering with the processing of the order.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The application having been allowed, formal drawings are required in response to this Office Action.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adrian J. McPhillip whose telephone number is (571)270-5399. The examiner can normally be reached on Monday to Thursday 7:30 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Beth Boswell can be reached on (571)272-6737. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. J. M./
Examiner, Art Unit 3623

7/30/2011

/BETH V BOSWELL/
Supervisory Patent Examiner, Art Unit 3623